

US-PAT-NO: 5475844

DOCUMENT-IDENTIFIER: US 5475844 A

TITLE: Heavily loaded resource evaluation system

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Application Filing Date - AD (1):
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Detailed Description Text - DETX (26):

FIG. 3 shows an example of resource utilization ratio threshold values in the resource utilization ratio threshold value file 4. The resource utilization ratio threshold value file 4, which is to be set in advance of the actuation of the heavily loaded resource evaluation system, consists of the alarm value and limit value, within the performance guarantee, for the utilization ratio of each of the system resource utilization records of the system management facility file 1, more specifically the utilization ratio of the CPU, the page fault count of the memory, and the I/O counts of the disk and the MSP.

Detailed Description Text - DETX (29):

The heavily loaded resource selection program 5, if it determines the record to be a CPU record at step 52, converts the CPU time of that record into a CPU utilization ratio (in %) by dividing it by the data sampling interval (step 53). Further the heavily loaded resource selection program 5 determines whether or not said CPU utilization ratio surpasses the limit value of the resource utilization ratio threshold values for the CPU in the resource utilization ratio threshold value file 4 (step 54). The heavily loaded resource selection program 5, if it determines at step 54 that the CPU utilization ratio surpasses the limit value, will put the resource name (CPU), the sampling time and the CPU utilization ratio as a single record into the second work area 6 (step 55).

Detailed Description Text - DETX (66):

Then the heavily loaded resource determination result output program 10 causes the record ID to get one "CPU" record (step 102). The heavily loaded resource determination result output program 10 compares the CPU utilization ratio stored in the detail part 1 of said record with the alarm value and the limit value for the CPU utilization among the threshold values for the resource utilization ratio in the resource utilization ratio threshold value file 4 (step 103). The heavily loaded resource determination result output program 10 converts the value of the CPU utilization ratio into character data, using a letter "S" if the CPU utilization ratio is between 0 and the alarm value (%), a letter "W" if it is between the alarm value and the limit value (%) or a letter

"O" if it is between the limit value and 100 (%) in the result of determination at step 103; adds to it the job name stored in the detail parts 2 and the result of the conversion of said job into character data in which the CPU utilization ratio is represented by one or more "*"s; edits the sum of addition in an output form; and puts it into the third work area 11 (step 104).

Claims Text - CLTX (9):

2. A heavily loaded resource evaluation system, as claimed in claim 1, wherein the resource utilization ratio threshold values in said resource utilization ratio threshold value file consist of preset alarm values and limit values, within the performance guarantee, for a CPU utilization ratio, a page fault count of a memory, and input/output (I/O) counts for said external memory units and said external memory control unit.